

I am not sure all of us will come  
at the same time & they are say - likely  
we will come in shifts. See you Tuesday at 10<sup>00</sup>A.

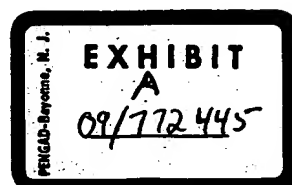
$$\begin{array}{r} 2000 = 7000 \\ \times 1000 \\ \hline 2000000 \end{array}$$

I understand that there are 24 rats who  
will receive 6 punch wounds each. Here  
are our suggestions for the experiment using  
3 rats per group

1. Thymosin  $\alpha 1$  added directly to 3 wounds/animal
2. Thymosin  $\alpha 1$  given I.P. daily at 200  $\mu$ g/ml
3. Thymosin  $\beta 4$  added directly to 3 wounds/animal
4. Thymosin  $\beta 4$  given I.P. daily
5. Peptide C16 added directly to 3 wounds/animal
6. Peptide AB10 added directly to 3 wounds/animal
7. Peptide Control added directly to 3 wounds/animal
8. Control rats receive I.P. injections daily

Let me know if I've missed some important  
controls or miscalculated anything.

B<sub>2</sub>+g<sub>1</sub> → 1ml total fluid  
10ml of I.P.  
1ml of control



3 rats

Typically 3 days

2 doses? 1000  $\mu\text{g}/\text{ml}$   
1  $\text{ml}/\text{ml}$

Injunct  $\rightarrow$  daily

200  $\mu\text{g}$  rats

200  $\mu\text{g}$  / injection  
daily

Not Toxic

1  $\text{mg}/\text{ml} \rightarrow 200 \mu\text{g}$

1000  $\mu\text{g}/\text{ml} \rightarrow 200 \mu\text{g}$

5 to 200  $\mu\text{g}/\text{ml}$   
Treated

3 rats  $\rightarrow$  70 days until  
 $\rightarrow$  30 Treated

6  $\text{mg}$  A

4  $\text{mg}$  Toxicity

Control → C 46

peptide → 25 ng/ml

↓  
300 ul / mouse

3 mice

→ 90.0

↓

6.3 ml of 25 ng/ml solution

6.3 ml → 7 ml

↓  
25 ng/ml dilute to 100 ul  
need 1 ml

$T_{1/2}$  / a, → 300 ul / mouse

→ 900 ul / day of 100 ng/ml  
solution

↓

6.3 ml of 100 ng/ml

make 1 ng/ml

dilute 1/10 1 ml

300 ul / day of 200 ng/ml → 900 ul of 200 ng/ml

↓

6.3 ml of 200 ng/ml

make 2 ng/ml

dilute 1/10 1 ml

Want to do cat assay

100  $\mu\text{g/ml}$  solution of each

A, B,

put on 10ul typically

1 hr after wounds stopped  
licking 1 next day

200  $\mu\text{g/ml}$

per injection, 300/200ul?

peptide  $\rightarrow$  20  $\text{mg/ml}$

C 46  $\rightarrow$  control peptide

Note: injected control peptide 2 hr before  
switched to saline

T<sub>9</sub> } Topical } great  
 I<sub>9</sub> }  
 Fibroblast  
 mature granulation

Topical vs  
 dermis neovascularization  
 near  
 Top

I<sub>9</sub>  
 complete healing  
 of epidermis etc.  
 well organized  
 good tensile strength  
 - see vasculature all  
 through  
 - may be some  
 proliferation

T<sub>34</sub>  
 - cell migration  
 - cell proliferation  
 - complete epithelialization  
 - neovascularization

C16  $\rightarrow$  low migration  
low increase

$\rightarrow$  poor neovascularization

$\rightarrow$  blood vessels

AB/D  $\rightarrow$  like C16

but helps in epithelialization  
perocyte differentiation  
no neovascularization

	DAY 4	DAY 7
Topical Thymosin $\alpha 1$	456 <del>none</del> 3 rats	1, 2, 3
Topical IP Thymosin $\alpha 1$ .5X	<del>none</del> 3 rats	4, 5, 6
Topical B4 0.5X low dose	789	10, 11, 12
Topical B4 1X dose	13, 14, 15	16, 17, 18
IP B4 0.5X	19, 20, 21	22, 23, 24
IP B4 1X	25, 26, 27	28, 29, 30
Control IP	31, 32, 33	34, 35, 36

Peptide topical 0.5X	none	37, 38, 39 and 40
" 1X	none	40, 41, <del>42</del>
" 5X	none	43, 44, 45

5 extra rats

8 extra rats

Peptide, Gardner